

# EUROPEAN PATENT OFFICE

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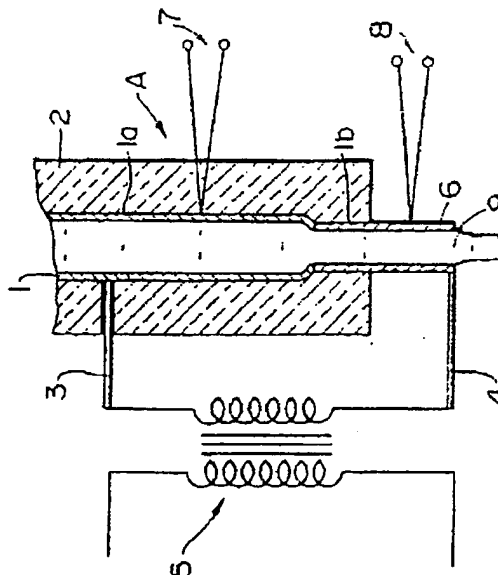
APPLICATION DATE : 11-09-87  
APPLICATION NUMBER : 62227663

APPLICANT : HOYA CORP;

INVENTOR : OGITA SHINYA;

INT.CL. : C03B 5/26 G05D 7/00

TITLE : FLOW CONTROLLER FOR MOLTEN GLASS



ABSTRACT : PURPOSE: To uniformize the temp. of the whole pipe even when the glass having low viscosity and a high-temp. liq. phase is discharged and to accurately control and stabilize the flow rate at all times by providing a difference in the electric resistance value between the upper and lower parts of the pipe made of platinum or a platinum alloy and connected to the discharge port of a molten glass vessel.

CONSTITUTION: The pipe 1 made of platinum or a platinum alloy and connected to the discharge port of the molten glass vessel and a heat-insulating material 2 covering the pipe 1 except the tip 6 are provided, and a DC or AC voltage is impressed on the pipe 1 to produce heat from the pipe 1. The flow controller for molten glass is provided with the feeder terminals 3 and 4 connected to the pipe 1, a feeder 5, and the thermocouples 7 and 8 for detecting the temp. of the molten glass flowing in the pipe 1 connected to the pipe 1, and the following constitution is added. Namely, the pipe is formed with the upper part 1a and the lower part 1b, and the electric resistance value of the lower part is made greater than that of the upper part 1a (e.g., the resistance cross section of the part 1b is smaller than that of the part 1a).

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